

## EAST Search History

| Ref # | Hits    | Search Query                                | DBs                                                     | Default Operator | Plurals | Time Stamp          |
|-------|---------|---------------------------------------------|---------------------------------------------------------|------------------|---------|---------------------|
| L1    | 2       | "5472566".pn.                               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/05<br>16:04 |
| L2    | 2       | "6,162,301".pn.                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/06/05<br>17:01 |
| S1    | 81509   | magnetic adj recording adj<br>medium        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:27 |
| S2    | 2442614 | etch or remove or mill                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:27 |
| S3    | 4592000 | etch\$3 or remove\$3 or mill<br>\$3         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:28 |
| S4    | 15857   | S1 and S3                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/09<br>18:09 |
| S5    | 116     | etch near both near (sides<br>or surfaces)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:29 |
| S6    | 980106  | both near (sides or<br>surfaces)            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:29 |
| S7    | 19955   | (sides or surfaces) near<br>simultaneous\$2 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/30<br>13:37 |

|     |         |                                                   |                                                         |    |    |                     |
|-----|---------|---------------------------------------------------|---------------------------------------------------------|----|----|---------------------|
| S8  | 72782   | S3 same (S6 or S7)                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:30 |
| S9  | 3935    | S3 near (S6 or S7)                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:30 |
| S10 | 224     | S3 near S7                                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:34 |
| S11 | 5       | S10 and S1                                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:34 |
| S12 | 4       | etch near sides near<br>simultaneous\$2           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:37 |
| S13 | 7795884 | simultaneous\$2 near etch<br>near both sides      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>13:52 |
| S14 | 7       | simultaneous\$2 near etch<br>near both near sides | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:10 |
| S15 | 1       | pct/jp04/11085                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:03 |
| S16 | 2       | "4632898".pn.                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:03 |
| S17 | 2       | "6653057".pn.                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:07 |

|     |       |                                               |                                                         |    |    |                     |
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| S18 | 2     | "2001167420"                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:08 |
| S19 | 2     | "2001143252"                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:09 |
| S20 | 98329 | mask same resist                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:10 |
| S21 | 10    | (deposit near mask) same<br>both near sides   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:11 |
| S22 | 10    | (deposit near mask) same<br>(both near sides) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:52 |
| S23 | 8185  | recordable near medium                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:52 |
| S24 | 196   | S23 and resist                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:53 |
| S25 | 77    | S24 and mask                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:53 |
| S26 | 27    | S25 and divided                               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:57 |
| S27 | 569   | manufacture near<br>recording near medium     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:57 |

|     |        |                                      |                                                         |    |    |                     |
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| S28 | 486200 | recording near medium                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:58 |
| S29 | 79     | S28 and (ion near beam<br>near etch) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:58 |
| S30 | 27     | S29 and resist                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:58 |
| S31 | 23     | S30 and mask                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:59 |
| S32 | 189765 | magnetic near disk                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>15:59 |
| S33 | 6012   | S32 and resist                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:00 |
| S34 | 616459 | mask                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:00 |
| S35 | 3113   | S33 and S34                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:00 |
| S36 | 10     | S35 and (ion adj beam adj<br>etch)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:03 |
| S37 | 81509  | magnetic adj recording adj<br>medium | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:04 |

|     |        |                               |                                                         |    |    |                     |
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| S38 | 23     | continuous near groves        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:04 |
| S39 | 1      | S37 and S38                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:06 |
| S40 | 85385  | recording near layer          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:06 |
| S41 | 106006 | S40 amd hardmask              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:06 |
| S42 | 106006 | S40 amd hardmask              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:06 |
| S43 | 20     | S40 and hardmask              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:06 |
| S44 | 13     | S43 and resist                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:09 |
| S45 | 67339  | data near storage near device | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:11 |
| S46 | 2      | "6228562".pn.                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:14 |
| S47 | 2      | "6014296".pn.                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:22 |

|     |         |                                                       |                                                         |    |    |                     |
|-----|---------|-------------------------------------------------------|---------------------------------------------------------|----|----|---------------------|
| S48 | 93      | (ion near etch) and<br>(simultaneous\$2 near<br>both) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:28 |
| S49 | 10      | (ion near mill) and<br>(simultaneous\$2 near<br>both) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:26 |
| S50 | 5       | S49 and resist                                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:26 |
| S51 | 7       | S49 and mask                                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:27 |
| S52 | 0       | S49 and recordable                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:26 |
| S53 | 6094    | simultaneous\$2 near<br>(remove or etch or mill)      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:28 |
| S54 | 2356712 | (disk or record or<br>recordable)                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:29 |
| S55 | 888     | S53 and S54                                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:30 |
| S56 | 1214    | ion near mill                                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:30 |
| S57 | 67023   | ion near beam                                         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:31 |

|     |        |                  |                                                         |    |    |                     |
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| S58 | 37     | S55 and S57      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:31 |
| S59 | 844387 | both near sides  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:41 |
| S60 | 13     | S58 and S59      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:32 |
| S61 | 25     | S57 near S59     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:35 |
| S62 | 0      | S60 and S61      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:33 |
| S63 | 0      | S61 and hardmask | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:35 |
| S64 | 0      | "5472566.pn."    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:37 |
| S65 | 0      | "5472566.pn."    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:37 |
| S66 | 2      | "5472566".pn.    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:37 |
| S67 | 23840  | imprint          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:42 |

|     |         |                                  |                                                         |    |    |                     |
|-----|---------|----------------------------------|---------------------------------------------------------|----|----|---------------------|
| S68 | 550554  | simultaneous                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:42 |
| S69 | 2111567 | simultaneous\$2                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:42 |
| S70 | 3969    | S59 near S69                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:43 |
| S71 | 2       | S67 same S70                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:43 |
| S72 | 28936   | S59 same S69                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:43 |
| S73 | 37      | S67 same S72                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:44 |
| S74 | 108     | resist near imprint              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:45 |
| S75 | 1       | S59 same S74                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:45 |
| S76 | 10      | S74 and front and back           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:46 |
| S77 | 411275  | (double or two) near side<br>\$2 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/30<br>16:46 |



|     |      |                                                      |                                                         |      |    |                     |
|-----|------|------------------------------------------------------|---------------------------------------------------------|------|----|---------------------|
| S78 | 1712 | S77 and imprint                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/10/30<br>16:46 |
| S79 | 292  | S78 and resist                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/10/30<br>16:49 |
| S80 | 230  | S79 and pattern                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/10/30<br>16:46 |
| S81 | 94   | S78 and photoresist                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/10/30<br>16:52 |
| S82 | 2    | "20050146078"                                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/10/30<br>16:53 |
| S83 | 1    | ("2005/0146078").URPN.                               | USPAT                                                   | OR   | ON | 2007/10/30<br>16:54 |
| S84 | 5757 | "20020507"                                           | USPAT                                                   | OR   | ON | 2007/10/30<br>16:55 |
| S85 | 2    | 10/140140                                            | USPAT                                                   | OR   | ON | 2007/10/30<br>16:57 |
| S86 | 15   | imprint both sides                                   | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:01 |
| S87 | 1    | "6482742".pn.                                        | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:08 |
| S88 | 77   | imprint apparatus                                    | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:08 |
| S89 | 412  | imprint near lithography                             | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:08 |
| S90 | 208  | S89 and apparatus                                    | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:09 |
| S91 | 15   | S90 and both sides                                   | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:09 |
| S92 | 15   | S90 and (both sides)                                 | USPAT                                                   | NEAR | ON | 2007/10/30<br>17:09 |
| S93 | 4    | (imprint near lithography)<br>same (both near sides) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/01<br>08:27 |

|      |        |                                      |                                                         |    |    |                     |
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| S95  | 23855  | imprint                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:29 |
| S97  | 828132 | both adj sides                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:28 |
| S98  | 143    | SUSS adj MicroTec                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:29 |
| S99  | 18     | S98 and S95                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:29 |
| S100 | 3      | S99 and S97                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:34 |
| S101 | 2      | "6228562".pn.                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:34 |
| S102 | 2      | "5472566".pn.                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:51 |
| S103 | 2      | "6014296".pn.                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>08:54 |
| S104 | 1      | 10/544895                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>11:58 |
| S105 | 7043   | deposition same (both<br>near sides) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>11:58 |

|      |         |                        |                                                         |    |    |                     |
|------|---------|------------------------|---------------------------------------------------------|----|----|---------------------|
| S106 | 1881663 | semiconductor          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>11:58 |
| S107 | 2890    | S105 and S106          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>11:59 |
| S108 | 253     | S107 and apparatus.ti. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>11:59 |
| S109 | 302     | 359/567                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:28 |
| S111 | 667     | 359/2                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:29 |
| S112 | 82462   | S109 or S110           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:31 |
| S113 | 10408   | S112 and rotate        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:29 |
| S114 | 4604    | image and S113         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:30 |
| S115 | 1021921 | front and back         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:30 |
| S116 | 4805548 | front or back          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:30 |

|      |         |                        |                                                         |    |    |                     |
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| S117 | 10824   | S112 and S115          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:30 |
| S118 | 900     | S117 and hidden        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:31 |
| S119 | 848     | S109 or S111           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:31 |
| S120 | 221     | S119 and S115          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:31 |
| S121 | 60      | S120 and rotate        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>13:06 |
| S122 | 8       | S121 and hidden        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>12:31 |
| S123 | 3440577 | rotate or tilt or move | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>13:06 |
| S124 | 213     | S123 near hologram     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/01<br>13:06 |
| S125 | 2       | "5139571".pn.          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:13 |
| S126 | 3       | "7005382".pn.          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:14 |

|      |   |                      |                                                         |    |    |                     |
|------|---|----------------------|---------------------------------------------------------|----|----|---------------------|
| S127 | 1 | S126 and silica      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:14 |
| S128 | 0 | S127 and tetrabutyl  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:15 |
| S129 | 1 | S127 and ammonium    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:16 |
| S130 | 1 | S129 and polyacrylic | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/11/09<br>18:16 |
| S131 | 1 | 10/544895            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/06/05<br>14:17 |

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